



Speech Science: An Integrated Approach to Theory and Clinical Practice (3rd Edition) (Allyn & Bacon Communication Sciences and Disorders)

By Carole T. Ferrand

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Respected professor, avid researcher, and prolific author Carole T. Ferrand offers a brand new edition of her widely-read and highly-regarded resource for students and clinicians of the communication sciences and disorders. *Speech Science: An Integrated Approach to Theory and Clinical Practice, 3/e* continues to highlight the close relationship between the scientific study of speech production and perception, and the application of this data to the evaluation and treatment of communication disorders. Dr. Ferrand integrates scientific material on the acoustics, anatomy, and physiology of speech production and perception with state-of-the-art instrumental techniques used in clinical practice to create the most comprehensive, detailed approach to the subject. While the focus of the book remains unchanged, the text now features a new re-organization for a greater flow of information, all chapters have been updated with current research, and additional integrative case studies have been included within many of the clinical chapters.

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Editorial Review

From the Back Cover

Speech Science: An Integrated Approach to Theory and Clinical Practice, 3/e continues to highlight the close relationship between the scientific study of speech production and perception, and the application of this data to the evaluation and treatment of communication disorders. Integrating scientific material on the acoustics, anatomy, and physiology of speech production and perception with state-of-the-art instrumental techniques used in clinical practice, makes the Ferrand text the most comprehensive, modern, and detailed approach to the subject.

Features of this new edition include:

- **Additional material on basic physics concepts throughout the first chapter** in narrative and tabular form which provides a more thorough grounding and review of basic concepts for students, and helps them to appreciate how speech science relates to other branches of science.
- **The topics of resonance and the role of the vocal tract as an acoustic resonator have been combined** into one chapter early in the text, providing students a seamless transition between concepts, and a firm basis for understanding the source-filter theory.
- **Updated research in all clinical chapters.** Current research literature helps students to appreciate the ways in which instrumental techniques supplement and enhance the diagnosis, evaluation, and treatment of individuals with communication disorders.
- **Additional integrative case studies** facilitate student appreciation of the strong links between theory and current clinical management of patients with a wide variety of communication disorders.
- **Inclusion of two-color illustrations** help students to clearly visualize important aspects of anatomy and physiology relevant to human communicative behavior.
- **Descriptions of current technologies** such as high-speed digital imaging, electromagnetic articulography, and transcranial magnetic stimulation. Additional information regarding acoustic, aerodynamic, kinematic, and brain imaging techniques provides students with an introduction to new and innovative methods that are used to assess and treat articulatory, phonatory, respiratory, auditory, and nervous system disorders.

About the Author

Carole T. Ferrand, Ph.D., is Professor of Speech, Language, and Hearing Science at Hofstra University. Her research interests include the acoustic aspects of normal and disordered speech production in monolingual and bilingual speakers, and the acoustics of birdsong. Dr. Ferrand earned a B.A. from Witwatersrand University, and her M.S. and Ph.D. from Pennsylvania State University, University Park.

Users Review

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